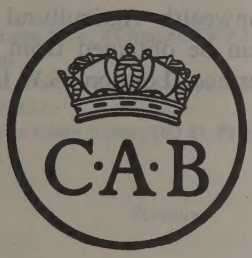
FIELD CROP ABSTRACTS

Volume 28



Commonwealth Bureau of Pastures and Field Crops, Hurley

1975

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Identification services are provided for entomologists, mycologists and helminthologists. Other services include: bibliographies (with or without annotations), review articles, technical monographs (some of which are standard works), photocopies of source papers, answering enquiries.

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COMMONWEALTH BUREAU OF PASTURES AND FIELD CROPS

HURLEY, MAIDENHEAD, BERKS SL6 5LR, UK

The Commonwealth Bureau of Pastures and Field Crops is located at the Grassland Research Institute, Hurley, and one of a group of 10 Bureaux and 4 Institutes which together form the Commonwealth Agricultural Bureaux, an organization financed and administered jointly by the various Commonwealth Governments and Dependent Territories. The Commonwealth Agricultural Bureaux produce 20 abstract journals covering the major branches of agricultural and related sciences. These journals and their subscription rates are listed on the back cover.

The Bureau prepares two monthly journals, *Herbage Abstracts* and *Field Crop Abstracts,* for publication by the Commonwealth Agricultural Bureaux, Farnham Royal, Bucks. These journals contain abstracts of the research findings reported in the world scientific literature on annual field crops, pastures, herbage plants and rangelands and provide both a comprehensive guide to current scientific and technological developments in their subjects and a key to the literature published in the past. In addition to abstracts, the Bureau also issues reviews and monographs on selected subjects.

Scope of Field Crop Abstracts: The subjects covered include the agronomy and major aspects of the biology of all annual field crops grown for food, fodder, oil and fibre, and of tobacco. Land use, farming systems, agricultural meteorology and the control of weeds, pests and diseases are dealt with only in so far as they concern the crop coverage:

The Bureau is prepared, on request, to undertake literature searches and to compile bibliographies on subjects within its scope. A list of bibliographies already compiled is published in this journal.

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NOTES TO READERS

The address given at the end of abstract citations is that of the first author at the time of writing and is normally where the work was carried out.

Transliteration of Cyrillic script is based on the International Standard ISO/R9 1968 (E).

The titles of periodicals and reports conform where possible to those given in the *World List of Scientific Periodicals* (4th Edn; London: Butterworth) and are listed in *Field Crop Abstracts* Vol. 25, No. 1, pp. xix-xiv; they can also be obtained as a separate from the Bureau of Pastures and Field Crops, Hurley, Maidenhead SL6 5LR, price £0.25.

One-side-only copies of *Field Crop Abstracts* are available at £3.00 above the annual subscription rate.

LANGUAGE SYMBOLS

The language symbols used are listed below. An initial capital letter denotes the main language of a paper, a small letter the language of the summary(ies).

Af	Afrikaans	Fi	Finnish	Nl	Dutch, Flemish
Al	Albanian	Fr	French	No	Norwegian
Ar	Arabic	Gr	Greek	Pe	Persian
Be	Belorussian	He	Hebrew	Pl	Polish
Bg	Bulgarian	Hu	Hungarian	Pt	Portuguese
Ch	Chinese	Ia	Interlingua	Ro	Romanian
Cr	Croat	In	Indonesian	Ru	Russian
Cs	Czech	Is	Icelandic	Sh	Serbo-Croat
Da	Danish	It	Italian	Sk	Slovak
De	German	Ja	Japanese	Sn	Slovene
Ee	Estonian	Ko	Korean	Sr	Serbian
En	English	La	Latin	Sv	Swedish
Eo	Esperanto	Li	Lithuanian	Tr	Turkish
Es	Spanish	Lv	Latvian	Uk	Ukrainian
		Ma	Macedonian		

ABBREVIATIONS

The abbreviations used for the names of common units, mathematical operations, chemical elements, etc., are in accordance with British Standard 1991 : 1967. The following additional abbreviations are also used:

a.e.	–	acid equivalent	*FCA*	–	*Field Crop Abstracts*
a.i.	–	active ingredient	*HbA*	–	*Herbage Abstracts*
alt.	–	altitude	LAI	–	leaf-area index
CGR	–	crop growth rate	LAR	–	leaf-area ratio
cv.	–	cultivar(s)	NAR	–	net assimilation rate
DM	–	dry matter	OM	–	organic matter
F . . .s	–	from . . . .summary	RGR	–	relative growth rate
f.y.m.	–	farmyard manure			

ERRATA

(lines are counted from the beginning of the bibliographic data in each item.)

Volume 28

Page	*Abstract*	*Line*	
7	64	6,7	For 'leaves of winter wheat' read 'were held in the dark'
18	174	2	For 'Arkansas Farm Research' read '*Arkansas Farm Research*'
31	305	6	For 'cellulose' read 'cellulase'
53	542	8	Insert 'P_2O_5' after 'N + 60 kg'
58	629	12	Insert 'treatment' after 'foliar'
69	723	2	For '**labelled**' read '**labeled**'
87	900	16	For '>450°' read '<450°'
93	960	2	For '**on**' read '**in**'
107	1110	1,2	For 'Zashchita Rastenii' read '*Zashchita Rastenii*'
138	1467	21	Insert 'matured 2-4 days earlier than at 52 plants/m^2' after 'm^2'
141	1499	14	Insert 'perpendicular' after 'more'
176	1851	13	For '2nd-chamber' read '2nd growth-chamber'
268	2666	9	Insert 'were also significant. Carbohydrate content within a given cultivar' after 'cultivar'
272	2713	19	For 'Okayama,' read 'Okayama. Leaf alkaloid contents were highest in samples from Lexington and Okayama,'
302	3021	8	Insert 'at the lowest plant density. Maximum root sugar contents were obtained' after 'obtained'
329	3304	12	For 'middle' read 'top'
345	3459	11	Insert 'and between K and Ca negative' before 'except'
362	3632	10	After 'were' read 'in the ratio 1:2:1 or 2:1:1. The increases in seed protein contents were'
375	3772	9	After 'numbers' read 'are reported for various stages of growth and the numbers'
387	3898	16	Insert 'efficiency' before 'was'
434	4421	9	Insert 'or' before '$CaCl_2$'
467	4782	4	For '*Instytuto*' read '*Instytutu*'
473	4851	5	For 'Kirobavad' read 'Kirovabad'
474	4860	2	Insert '*Home*' after '*and*'
475	4875	12	Change full stop to comma
475	4878	6	For 'Pustin' read 'Pustyn'
479	4916	7	For 'Armavinskoĭ' read 'Armavirskoĭ'
480	4922	15	For 'leaf-blade proportions' read 'in (b)'
482	4943	8	For '*Selaria*' read '*Setaria*'
482	4943	12	For '*yaguaronensa*' read '*yaguaronense*'
482	4947	15	For 'chanfrom' read 'changes of transpiration from'
484	4964	5	For 'fitosenozakh' read 'fitotsenozakh'
486	4999	5	For 'prienenie' read 'primenenie'
528	5464	3	For 'Biochemie und Physiologie der Pflanzen' read '*Biochemie und Physiologie der Pflanzen*'
533	5518	3	Insert '**and dry crops perspective**' after '**yields**'
616	6424	2	Delete '*aa*' before '*International.*' Insert '*Institute Annual Report for 1972*' after '*Research*'
718	7519	13	For 'Phthorimaea operculella' read '*Phthorimaea operculella*'
731	7667	14	Insert 'oxamyl' between 'kg' and 'a.i.'
738	7755	2,3	For 'shchita Rasteniiof soil and herbicides' read '**Herbicides and minimum tillage of soil**'
759	7980	6,7	For '>$CaSO_4 \geqslant CaCO_3$.' read 'with P at 2 meq/l and with'
761	8004	15	Insert '8.29 and' before '9.45'
771	8109	10	Insert 'per day' after '22%'
808	8513	7	For 'Setaria italica' read '*Setaria italica*'

FIELD CROP ABSTRACTS VOLUME 28, 1975

CONTENTS

REVIEW ARTICLE:

Leaf inclination and crop production, by B.R. Trenbath and J.F. Angus 231

ABSTRACTS:

CEREALS

Wheat	1	61	121	159	245	281	319	413	503	591	663	747
Oats	8	65	126	166	249	285	329	423	514	599	673	755
Rye	9	66	126	168	250	285	331	425	516	601	674	756
Triticale	9	66	–	169	–	–	332	426	516	601	674	756
Barley	10	66	126	169	250	286	333	426	516	601	675	757
Wild-rice	–	–	–	–	–	–	–	–	–	–	–	–
Maize	12	70	128	173	252	287	339	430	522	605	679	761
Sweet corn	17	–	–	182	256	291	346	439	529	611	686	766
Rice	17	75	131	182	256	291	347	439	529	611	686	766
Sorghum	21	80	–	185	257	293	351	443	538	617	691	771
Pennisetum typhoides	22	81	134	186	258	294	352	445	539	618	694	–
Panicum miliaceum	23	81	–	–	–	294	352	445	540	618	695	771
Panicum miliare	–	–	–	–	–	–	–	–	540	618	–	–
Eleusine coracana	23	82	–	186	–	–	–	446	540	618	695	771
Minor cereals	–	–	–	–	–	–	–	–	–	–	–	–
Cereals, general	23	82	134	186	258	294	353	446	540	619	695	772

LEGUMES

Soyabeans	24	83	135	187	258	295	356	448	542	619	697	773
Groundnuts	26	86	137	190	260	297	359	452	544	622	700	776
Peas	27	87	138	191	260	297	361	453	546	623	702	777
Vicia spp.	29	89	140	193	261	298	364	456	549	626	705	780
Phaseolus spp.	29	90	141	195	261	299	365	457	550	627	706	780
Vigna spp.	32	92	142	197	262	300	367	460	554	630	710	783
Trifolium spp.	–	–	–	–	–	–	–	–	–	–	–	–
Voandzeia subterranea	–	–	–	–	–	–	–	–	–	–	–	–
Cajanus cajan	33	94	–	197	262	–	368	–	555	630	710	783
Cicer arietinum	33	94	–	197	–	300	368	461	555	630	711	783
Lens esculenta	33	94	142	198	–	–	368	461	556	630	711	784
Lupinus spp.	33	94	142	198	262	300	368	462	556	631	711	784
Minor legumes	–	–	–	–	–	–	–	–	–	–	–	784
Legumes, general	34	96	143	199	263	–	369	463	556	632	711	784

ROOT CROPS

Sugar beet	34	96	143	199	263	301	369	463	557	632	712	785
Fodder beet	35	98	144	202	266	303	373	466	–	634	714	788
Turnips and Swedes	35	98	144	202	266	–	374	466	–	634	715	788
Potatoes	35	98	144	202	266	303	374	467	559	634	715	788
Carrots	38	–	–	–	–	–	382	472	–	–	–	792
Sweet potatoes	38	102	–	208	268	307	382	472	563	638	720	792
Cassava	39	103	148	208	268	307	382	472	564	638	720	792
Yams	39	–	–	209	–	307	382	473	564	638	721	793
Cocoyams	–	–	–	209	–	–	382	–	–	639	721	–
Minor root crops	–	–	–	–	–	–	–	–	–	–	–	–
Root crops, general	–	103	148	209	268	–	382	473	564	639	721	793

FIBRE CROPS												
Cotton	39	103	148	209	269	307	383	473	564	639	721	793
Fibre flax	41	105	150	211	269	307	387	476	569	643	724	795
Hemp	42	105	–	212	–	308	388	477	570	643	725	795
Jute	42	–	–	212	269	–	–	477	570	–	725	796
Minor fibre crops	–	–	–	–	–	–	–	–	–	–	–	796
Fibre crops, general	–	–	–	–	–	–	–	–	–	–	725	796
OILSEED CROPS												
Castor	43	106	150	212	269	308	388	477	570	644	725	796
Sesame	43	–	151	212	–	308	389	478	570	644	726	–
Oilseed flax	43	106	–	213	270	–	389	478	571	644	726	797
Safflower	43	106	151	–	–	308	389	478	571	644	726	797
Sunflower	43	106	151	213	270	308	389	478	571	645	726	797
Rape	–	107	151	214	271	309	391	480	572	646	728	798
Minor oilseed crops	–	–	–	–	–	–	–	–	–	–	–	799
Oilseed crops, general	45	108	–	215	272	–	392	481	574	646	730	–
MISCELLANEOUS CROPS												
Tobacco	45	109	152	215	272	309	393	481	574	646	730	799
Brassica oleracea	48	109	153	218	–	–	396	483	577	648	732	–
Fodder radish	–	–	–	–	–	–	–	–	–	–	–	–
Buckwheat	48	109	153	218	273	310	396	483	577	648	732	801
Other crops	–	–	–	–	–	–	–	–	–	–	–	–
Miscellaneous crops, general ...	–	–	153	–	273	–	–	–	577	–	–	–
GREEN MANURES	48	109	–	218	–	–	396	484	–	649	732	801
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FIBRE CROPS

Cotton	29	103	248	209	263	307	28	453	564	639	721	793		
Fibre flax	41	105	150	211	267	301	347	416	564	643	722	795		
Hemp	41	105	–	212	–	308	388	477	570	643	722	795		
Jute	42	–	–	212	268	–	–	477	570	–	722	796		
Minor fibre crops												796		
Fibre crops, general											725	796		

OILSEED CROPS

Cedar	43	106	150	212	269	308	360	479	570	644	723	796		
Sesame	43	–	151	212	–	308	389	478	570	644	726	–		
Oilseed rape	43	106	–	213	270	–	389	478	571	644	726	797		
Safflower	43	106	151	–	–	308	389	478	571	644	726	797		
Sunflower	43	106	151	213	270	308	389	478	571	645	726	797		
Soya		107	152	214	271	309	391	480	572	646	728	798		
Minor oilseed crops												798		
Oilseed crops, general	45	108		215	272	–	392	481	574	646	730	–		

MISCELLANEOUS CROPS

Tapioca	45	107	152	214	271	309	393	481	573	646	730	798		
Arrowroot	46	107	153	215	–	–	393	483	577	648	732	–		
Tapioca starch														
Isoglucose	46	–	153	215	–	310	394	483	577	648	732	800		
Other crops														
Miscellaneous crops, general			153		274	–	–		577	–	–	–		

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CROP BOTANY

Physiology	46	109	153	216	275	311	397	484	577	649	733	800		
Chemical composition	47	110	153	218	274	312	399	486	579	651	734	802		
Morphology and anatomy	–	–	–	217	–	–	–	485	578	651	–	801		
Environmental factors	50	110	154	218	274	312	400	487	579	652	734	804		
Nomenclature	–	–	155	220	275	312	401	488	580	652	–	805		
Radiobiology	50	111	154	220	–	–	–	–	580	–	–	–		
Taxonomy	50	–	154									805		
Techniques and apparatus	50	111	154	220	275	312	401	489	581	652	734	805		
Miscellaneous	50	112	155	222	275	313	–	491	581	–	–	–		

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